## AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

## LISTING OF CLAIMS:

- 1-4. (canceled)
- 5. (currently amended) A structure, comprising:
- a metallic material having a surface, the metallic surface having a surface roughness (Ra) being not more than  $1.5\,\mathrm{mm}$ ; and
- a chromium-oxide passivation film providing an outermost surface, said chromium oxide passivation film formed by heating a chromium film coated directly onto the metallic material surface in an oxidizing atmosphere, wherein,

said chromium-oxide passivation film is substantially 100% chromium oxide approximately 30~nm from the outermost surface,

a chromium layer which is not oxidized remains between said chromium-oxide passivation film and remains adhered to the metallic material so that said chromium-oxide passivation film is coupled to said metallic material, and

said  $\operatorname{chromium-oxide}$  passivation film has  $\operatorname{pin}$  holes, and  $\operatorname{said}$   $\operatorname{pin}$  holes are sealed.

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- 6. (currently amended) An article, comprising:
- a metallic body having a surface, the metallic body surface having a surface roughness (Ra) being not more than  $1.5\,\mathrm{mm}$ ; and
- a chromium-oxide passivation film providing an outermost surface, the chromium oxide passivation film formed by heating a chromium film coated directly onto the metallic material surface in an oxidizing atmosphere, wherein,

the chromium-oxide passivation film is substantially 100% chromium oxide approximately  $30~\mathrm{nm}$  from the outermost surface, and

a chromium layer which is not oxidized remains between the chromium-oxide passivation film and remains adhered to the metallic material so that the chromium-oxide passivation film is coupled to the metallic material.

7-8. (canceled)

- 9. (currently amended) A structure, comprising:
- a metallic body having a surface, the metallic body surface having a surface roughness (Ra) being not more than 1.5µm; and
- a chromium-oxide passivation film providing an outermost surface, the chromium oxide passivation film formed by heating a chromium film coated directly onto the metallic material surface in an oxidizing atmosphere, wherein,

the metallic body surface defines a continuous boundary between the metallic body and the chromium-oxide deposit, [[and]]

the chromium-oxide passivation film is substantially 100% chromium oxide approximately 30 nm from the outermost surface, and

a chromium layer which is not oxidized remains between the chromium-oxide passivation film and remains adhered to the metallic material so that the chromium-oxide passivation film is coupled to the metallic material.

10-12. (canceled)

13. (currently amended) A structure, comprising:

a metallic material having a surface, the metallic surface having a surface roughness (Ra) being not more than  $1.5\,\mathrm{mm}$ ; and

a chromium-oxide passivation film formed by heating a chromium film coated directly onto the metallic material surface in an oxidizing atmosphere, wherein,

at least approximately 30nm from an outermost surface of the chromium-oxide passivation film consisting of substantially 100% chromium-oxide, and

a chromium layer which is not oxidized remains between the chromium-oxide passivation film and remains adhered to the metallic material so that the chromium-oxide passivation film is coupled to the metallic material.

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- 14. (previously presented) The structure according to claim 5, wherein said chromium-oxide passivation film does not substantially include an element of said metallic material.
- 15. (previously presented) The structure according to claim 14, wherein said metallic material is stainless steel.
- 16. (previously presented) The structure according to claim 14, wherein said element is Fe or Ni.
  - 17. (canceled)
- 18. (previously presented) The structure according to claim 5, wherein said chromium-oxide passivation film is free from cracks.
- 19. (previously presented) The structure according to claim 6, wherein, said chromium-oxide passivation film has pin holes, and said pin holes are sealed.
- 20. (previously presented) The structure according to claim 9, wherein, said chromium-oxide passivation film has pin holes, and said pin holes are sealed.
- 21. (previously presented) The structure according to claim 13, wherein, said chromium-oxide passivation film has pin holes, and said pin holes are sealed.